UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,649	01/27/2004	Younger Ahluwalia	03398.000006.	4007
5514 7590 11/03/2010 FITZPATRICK CELLA HARPER & SCINTO 1290 Avenue of the Americas			EXAMINER	
			CHANG, VICTOR S	
NEW YORK, NY 10104-3800			ART UNIT	PAPER NUMBER
			1788	
			MAIL DATE	DELIVERY MODE
			11/03/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	RECORD OF ORAL HEARING
2	
3	UNITED STATES PATENT AND TRADEMARK OFFICE
4	
5	
6	BEFORE THE BOARD OF PATENT APPEALS
7	AND INTERFERENCES
8	
9	
10	Ex parte YOUNGER AHLUWALIA, MATTI KIIK,
11	and THOMAS D. KAROL
12	
13	
14	Appeal 2010-001528
15	Application 10/766,649
16	Technology Center 1700
17	
18	
19	Oral Hearing Held: June 10, 2010
20	
21	
22	
23	Before CHARLES F. WARREN, CATHERINE Q. TIMM, and
24	STEPHEN WALSH, Administrative Patent Judges.
25	
26	
27	APPEARANCES:
28	
29	
30	ON BEHALF OF THE APPELLANT:
31	
32	
33	ALICIA RUSSO, ESQUIRE
34	JOHN D. MURNANE
35	Fitzpatrick, Cella, Harper & Scinto
36	1290 Avenue of the Americas
37	New York, New York 10104-3800
38	

- The above-entitled matter came on for hearing on Thursday, June 10,
- 2 2010, commencing at 1:49 p.m., at the U.S. Patent and Trademark Office,
- 3 600 Dulany Street, Alexandria, Virginia, before Christine L. Loeser, Notary
- 4 Public.
- 5 JUDGE WARREN: Good afternoon, Ms. Russo.
- 6 MS. RUSSO: Good afternoon.
- 7 JUDGE WARREN: As you know, counselor, you have 20 minutes and you
- 8 may proceed when ready.
- 9 MS. RUSSO: Thank you. My name is Alicia Russo as we have established.
- 10 I'm here with Mr. John Murnane and together we represent the Applicants
- 11 for this application.
- We are from the New York office of Fitzpatrick, Cella, Harper & Scinto. I
- would like to approach the bench. I have some demonstratives that I think
- they could be helpful for you.
- 15 JUDGE WARREN: Are they in the record?
- 16 MS. RUSSO: I'm sorry?
- 17 JUDGE WARREN: Are your exhibits in the record?
- 18 MS. RUSSO: Yes, they are.
- 19 JUDGE WARREN: They were presented to the Examiner?
- 20 MS. RUSSO: They were presented, they are actually part of the record and
- 21 the claim but I have highlighted them so as I discuss the case with you, it
- 22 may be easier for you to see what we are pointing to.
- 23 JUDGE WARREN: Are your arguments in the Brief that you are going to
- 24 discuss with the exhibits?
- 25 MS. RUSSO: Yes, they are.

- 1 JUDGE WARREN: Okay. I have the claim and two of the prior art
- 2 references.
- 3 MS. RUSSO: The claims are currently rejected under 35 USC 103 as
- 4 obvious, based on three references, two of which I have handed you because
- 5 I have highlighted them. I have also given you the claim and I have got a
- 6 blown-up copy here.
- 7 The claim relates to the heat insulating and fire resistant composite material.
- 8 It comprises a first layer which comprises a prefabricated microcells
- 9 component, a surfactant component, surfactant-generated microcells, a filler
- 10 component and a binder competent, and it also comprises a second layer that
- comprises a metallic component that adheres to the first layer.
- 12 Lynn, as I have mentioned, the claims are rejected based on the Lynn,
- Horner and Smart. Lynn does not teach or suggest a surfactant component,
- surfactant-generated microcells and the prefabricated microcells component.
- Horner does not teach or suggest a second layer, comprising metallic
- 16 component adheres to the first layer and also doesn't teach or suggest
- 17 prefabricated microcells. In fact, Horner teaches away from including a
- metallic layer adhered to the first layer and Morton only teaches or it doesn't
- 19 teach pretty much any components there except for the prefabricated
- 20 microcells component.
- 21 This is the fourth different position that the office has taken as to what it felt
- 22 was prima facie obvious. In the first office action, which was dated
- November 2nd, 2005, the claims were rejected based on Horner --
- 24 JUDGE WARREN: Counselor, what does that have to do with your brief?
- MS. RUSSO: I'm just giving context because I think it will be helpful to the
- board as I develop the arguments to know the context.

- 1 JUDGE WARREN: Your arguments are restricted to your Brief and your
- 2 Reply Brief.
- 3 MS. RUSSO: These arguments are all of record in the file and I believe --
- 4 JUDGE WARREN: But they are not in your Brief.
- 5 MS. RUSSO: I still believe that it will help to give context to what I am
- 6 going to go over that is in the Brief. If you will permit me to go through
- 7 some of these things that occurred, I believe it will add context to what I'm
- 8 going to discuss.
- 9 JUDGE WARREN: Okay.
- 10 MS. RUSSO: In the first office action, the claims were rejected over Horner
- in view of Zucker. There, the Examiner said that Horner taught all the
- 12 elements of the claim with the exception of the prefabricated microcells
- 13 component.
- 14 The Applicant overcame that rejection, arguing that Horner did not teach the
- second layer and also that the combination of Horner and Zucker did not
- teach the claim and then a new round of rejection was raised, the second
- 17 round, in an office action dated May 23, 2006.
- 18 There the Examiner then rejected the claims based on Horner as the primary
- 19 reference again and added Lynn which is part of the rejection now in
- 20 Morgan. When the Examiner made those rejections, they were again
- 21 overcome, and the arguments were consistent that Horner doesn't teach us
- actually away from the second layer, the metallic component.
- 23 JUDGE WARREN: Counselor, the Examiner stated a position in the
- answer.
- 25 MS. RUSSO: Yes.

Appeal 2010-001528 Application 10/766,649

- 1 JUDGE WARREN: Do you have a problem with the position as the
- 2 Examiner stated it in the answer?
- 3 MS. RUSSO: Yes, I do.
- 4 JUDGE WARREN: Did you state that problem that you have in the Reply
- 5 Brief?
- 6 MS. RUSSO: I did, and it's consistent with everything else we have said in
- 7 this case which is why I think it is relevant for me to --
- 8 JUDGE WARREN: Your statement on page 4 of your Reply Brief, which
- 9 you now did not state in your Brief, is the fact that you say that the office
- fails to acknowledge that the specified class of materials proposed by Lynn
- 11 for the facing sheets 11 or 12 comprise a large number of substances in quite
- 12 different properties and must require a different, additional analysis for
- determining whether the various combination of these materials are
- 14 compatible depending on how they are assembled to reach a proposed
- 15 combination.
- 16 Is that the basis for your argument?
- MS. RUSSO: It's one of the bases of our argument, and we have other bases
- that are in the Brief which is that Horner doesn't teach or teaches away from
- 19 a metallic layer adhered and also that Horner and --
- 20 JUDGE WARREN: Can you point in the Brief where your teaching away
- 21 argument is presented?
- 22 MS. RUSSO: I apologize. I will come back to that but I would like to point
- out that the -- our Appeal Brief addresses the present rejections.
- 24 I'm just noting the history right now of what occurred, and I think it's
- 25 important for context. If I may, I will just continue with that.

- 1 When Horner was used as a primary reference with the reliance of Lynn as
- 2 providing the second layer, it was, well, that rejection was overcome and it
- 3 was overcome by noting that Horner teaches away from including the
- 4 second layer.
- 5 And, in fact, in an October 19, 2007, office action the Examiner withdrew
- 6 Lynn and Morgan. Morgan was utilized to provide teaching of prefabricated
- 7 microcells. Those two reference were actually withdrew as the basis of
- 8 rejection.
- 9 A third ground of rejection was then raised and it was Horner in view of
- 10 Martin. Martin was also one of the references that is now grounds for
- 11 rejection.
- 12 That was also overcome. The Examiner relied on Horner for what he had
- previously relied on for the surfactants factory-generated microcells, a filler
- 14 component and a binder component and looked to Martin for the teaching of
- prefabricated microcells and metallic component adhered to the first layer.
- 16 That was overcome by noting that Martin does not teach a metallic
- 17 component adhered to a first layer. Martin teaches prefabricated microcells
- that have a metallic coating on the inside and outside of the microcells.
- 19 Those microcells would then be used in the coating to acquire insulated
- 20 properties.
- 21 The Applicant successfully overcame that and the rejection was withdrawn.
- 22 The pending ground is the fourth ground of rejection and is now on appeal.
- 23 That rejection now relies on Lynn as the primary reference rather than
- Horner, and it supplements Lynn with teachings of Horner and Martin.
- 25 Again, the rejections based on Horner and Martin were previously
- 26 withdrawn.

Appeal 2010-001528 Application 10/766,649

- 1 We, in relying on Lynn as the primary reference, the office acknowledges
- 2 that Lynn does not teach the surfactant component, surfactant generated
- 3 microcells and prefabricated microcells. But now, instead of using Horner
- 4 as the main reference, the office is taking just what it needs from Horner to
- 5 say that the claim is obvious.
- 6 However, the combination of Horner and Lynn, no matter how it's presented,
- 7 is still the same as what was presented previously and that is that Horner and
- 8 Lynn together teach prefabricated microcell component, surfactant
- 9 components, factory-generated microcells, filler competent and a binder
- 10 component and a second layer comprising a metallic component.
- 11 The prefabricated microcells component comes from Martin but in the past it
- was coming from Morgan, but now the claim is deemed to be prima facie
- obvious, based on the component combination with Martin being provided
- rather than Morgan so there seems to be now a development of an argument
- that was very similar to the past that Applicants overcame and, however,
- without any further explanation as to why this change of using Lynn as the
- 17 primary reference rather than Horner, why that makes this suddenly obvious
- 18 again.
- 19 We would like to point out that, as argued before and as based on --
- 20 JUDGE WARREN: Counselor, you do realize that by rule, we are
- 21 considering the arguments that you have made in the Brief and the Reply
- 22 Brief ---
- 23 MS. RUSSO: Yes, I do and that is what I am going to talk about right now.
- 24 JUDGE WARREN: -- and considering the Examiner's position as stated in
- 25 the answer.
- 26 MS. RUSSO: I do realize that.

- 1 I am just merely pointing out, and I will go through it, that why I think this
- 2 is relevant.
- 3 Applicant's previous arguments are still relevant to the office actions that
- 4 were previously presented and the art that was previously presented.
- 5 We have pointed out in the Brief that, and we have already persuaded the
- 6 Examiner, that Horner and Lynn, together with a reference such as Morgan,
- 7 which provides prefabricated microcells, does not render the claim obvious.
- 8 Part of that argument is that Horner relates that a thick facer whereas Lynn
- 9 relates to a thin facer and the skilled artisan looking at those two things
- wouldn't be motivated to combine them.
- 11 JUDGE WARREN: Can you tell us where in your Brief you have stated
- why one of ordinary skill in this art would not have separated the coating of
- Horner from the mat of Horner and applied only the coating of Horner to the
- inner-facing layer 17 and 18 of Lynn?
- 15 MS. RUSSO: I did not argue in the Brief that the skilled artisan would not
- be motivated to do that. I was addressing what had I felt addressed the
- 17 rejection. However, we have argued that before.
- 18 JUDGE WARREN: But the Examiner's position in the answer is only the
- 19 coating, not the mat, is transferred to have used from Horner to coat the
- 20 inner-facing layers 17 and 18 of Lynn.
- 21 MS. RUSSO: What we did say is that the Examiner has not provided a
- reasoning as to why the skilled artisan would do that and his rejection, as
- 23 well as what is in the Examiner's answer, is deficient in the reasoning, and
- 24 we believe that even more so there's a deficiency because we have already
- 25 overcome these rejections, so what has changed?
- We have already indicated that the substrate is a required element. We

- submitted a declaration that indicates that that is a required element. You
- 2 need the substrate --
- 3 JUDGE WARREN: Is the declaration part of your Brief?
- 4 MS. RUSSO: It is not part of the Brief but it also was in response to a
- 5 different rejection rather than what is here now. This rejection hasn't
- 6 articulated what the Examiner believes would be the reasons why the skilled
- 7 artisan would do what he suggested.
- 8 JUDGE WALSH: I read the Examiner to find that the references taught
- 9 features of the various coatings and boards and so forth that would have
- improved durability and other properties, and that the Examiner referred to
- those advantages taught in the references as being a motivating factor for
- 12 combining the features of the boards. Why was the Examiner wrong about
- 13 that?
- 14 MS. RUSSO: The Examiner -- durability is not the focus of Horner. If the
- desire is to improve Lynn to make it more durable, Horner doesn't provide
- that teaching, nor does Martin.
- 17 Horner concerns providing a -- providing greater heat-insulating properties
- and to avoid cold temperature delamination which occurs when the process
- of making these boards is being done.
- 20 JUDGE WALSH: As I understood the Examiner's point, the Examiner
- 21 mentioned both durability and I think heat properties or thermal insulation
- 22 back.
- 23 If one reference in the prior art talked improving durability and another
- 24 talked about improving thermal insulation value, why was the Examiner
- wrong to put the two together and join both of those, to combine both
- advantages in one?

- 1 MS. RUSSO: I believe the Examiner was wrong in that regard because
- 2 Lynn teaches facers that are thin. He describes them as films. They are
- 3 even claimed as being films. They are between .3 and 5 mils.
- 4 Horner teaches a much thicker substrate which is comprised of a -- I'm sorry,
- 5 a thicker face which is comprised of substrate and coating, and the substrate
- 6 is between 10 and 30 mils and the coating is between 5 and 100 mils. So
- 7 together that facer is anywhere from 15 to 130 mils, which is about 3 to 433
- 8 times thicker. It is a very different thing.
- 9 The properties that are associated with that, of course, are going to be very
- 10 different.
- 11 JUDGE WALSH: Is there any evidence that the properties associated with
- the Horner and Lynn materials would be very different in some relevant way
- if their thicknesses were changed?
- 14 MS. RUSSO: Horner talks about foaming the coating. Foaming will
- increase thickness. It does discuss, and give me just a minute and I will
- point you to it, that that foaming that is in column 4, it is not highlighted for
- you, but it is at column 4, lines 32 to 34, the consistency of the foam was
- such that the coating mixture does not penetrate through the mat and
- simulates the consistency of shaving cream.
- 20 So you want the foam because you don't want penetration through the mat.
- 21 The reason why you don't want penetration through the mat is because you
- 22 want to keep, and it teaches this as well, you want to keep the interstices of
- 23 the mat open so that when you apply it to the core of the board, it adheres
- better to that foam core and that's the purpose of Horner.
- 25 JUDGE WALSH: What's the evidence that a person who works in this art
- would see it that way?

- 1 MS. RUSSO: The spec says that that's what the intention is, that that's what
- 2 you want to do.
- 3 The spec indicates that you get a better bonding strength. This is at column
- 4 5, lines 4 through 8, that I have highlighted for you.
- 5 It indicates the bonding strength between uncoated fibers and the core
- 6 material in the resulting product is enhanced due to the reduced penetration
- 7 of the coating mixture into the mat by reason of its prefoamed state. It's the
- 8 teaching of Horner.
- 9 In contrast, Lynn teaches thinner facers. You are not foaming. You are not
- going to have, obviously, you don't have surfactant and you won't have
- surfactant-generated microcells. If you foam a coating, you are going to
- 12 increase the volume. You are adding air.
- We believe, for the reasons that I stated, that Horner relates to a thinner -- a
- thicker coating and Lynn relates to the thinner coating that they wouldn't be
- 15 combined. We pointed that out in our Briefing. We think that the Examiner
- is clearly relying on impermissible hindsight.
- We have also, as I have mentioned, Applicants have stated that the office has
- failed to provide the required articulated reasoning with some rational
- underpinning as to why these two references, these three references would
- 20 be combined to arrive at the claimed invention.
- 21 As I noted before, the Examiner already acknowledged that the combination
- of Horner and Lynn didn't render the claim obvious and whether it includes
- 23 Morgan for prefabricated microcells or Martin is pretty much the same issue.
- 24 So with that in mind, it seems that greater articulation would be required to
- support a prima facie case of obviousness. We rely on KSR for this position
- 26 which a states that rejections based on obviousness grounds can't be

- sustained by mere conclusory statements. Instead there must be some
- 2 articulated reasoning with some rational underpinnings to support the legal
- 3 conclusion of obviousness.
- 4 We have also pointed to Sud-Chemie which is 554 F.3d 1001 where the
- 5 Federal Circuit also acknowledged that you need a greater analysis,
- 6 particularly in the field of composite technology which is what this field is.
- 7 And they stated that the District Court failed to acknowledge that the
- 8 specified classes of materials comprised a large number of substances with
- 9 quite different properties and that the various combinations can be
- 10 compatible or incompatible depending on how they are assembled.
- We recently sent the Board an unpublished --
- 12 JUDGE WALSH: A question about that mention about incompatibilities.
- Was there an argument in your Brief that materials of Lynn and Horner are
- 14 incompatible?
- 15 MS. RUSSO: We didn't argue that the materials were necessarily
- incompatible. We did argue that the two separate facers are different and
- 17 you wouldn't combine them.
- 18 JUDGE WARREN: Counselor, your time has been well exceeded. If you
- would finish, just give us a summary if that is appropriate.
- 20 MS. RUSSO: Okay. In summary, the invention, as I noted, relates to a
- 21 heat-insulating and fire-resistant composite material, comprising of a first
- 22 layer which comprises a prefabricated microcells component, a surfactant
- 23 component, surfactant-generated microcells, a filler component and a binder
- 24 component and a second layer comprising of a metallic component adhered
- 25 to the first layer.

Appeal 2010-001528 Application 10/766,649

- 1 Lynn lacks the teaching of a surfactant component, surfactant-generated
- 2 microcells and prefabricated microcells. The office has acknowledged in
- 3 2007 that the combination of Lynn and Horner didn't render this claim
- 4 obvious and nothing has changed since then.
- 5 There's nothing in Martin that cures the deficiency and the applicant also
- 6 overcame rejection based on Horner and Martin.
- We do note, in summary, that the case we recently sent you, In re
- 8 Vaidyanathan, specifically notes that varying positions that were taken by
- 9 the Examiner before and during the process and noted that these varying
- 10 positions further indicated the lack of reasoning for the rejection, and we
- believe that there have been numerous varying positions here, too.
- 12 In summary, we respectfully request that you reverse the rejections. Thank
- 13 you.
- 14 JUDGE WARREN: Thank you, counselor. The proceeding is terminated.
- Whereupon, the proceedings, at 2:19 p.m., were concluded.

16